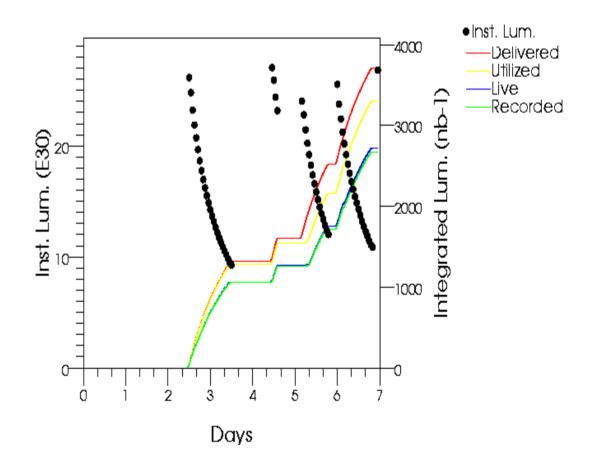
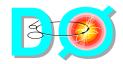


- Delivered luminosity and operating efficiency
 - Delivered: 3.7pb⁻¹
 - Recorded: 2.7pb⁻¹ (72%)
- Data taking efficiency
 - no major hardware/software problems
 - experienced 3 ~one hour downtime periods which affected efficiency during this short week
- Number of events collected
 - 7mln events
- Accelerator halo
 - reasonable





Data Taking and Triggering

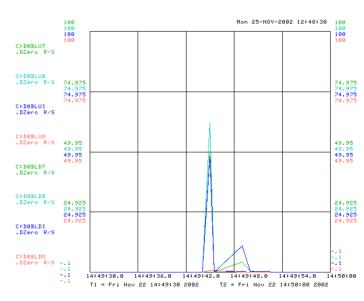
- Running physics trigger list 9.3 for the last two weeks
 - stable
 - designed for luminosity in the range (5-50)10³⁰
 - optimized for high Pt data collection and physics data sample for Winter Conferences
- Trigger rates guidelines are limited by trigger/DAQ systems stability
 - L1 trigger ~0.5kHz
 - L2 trigger 0.2-0.3kHz
 - L3 trigger (to tape) ~50 Hz
- Currently most serious issues limiting our efficiency and trigger rates
 - muon readout
 - ▲ mini-drift tubes issue is understood, plan to resolve within a week
 - PDT problems are not understood yet
 - calorimeter readout
 - ▲ starts to limit operating efficiency at Level 2 rate of ~0.5kHz
- Longer term trigger rate plans
 - by January shutdown run at rates close to Run II specs for Level 2(1kHz) and Level 3(50Hz) triggers
 - if PDT and Calorimeter issues are resolved
 - Level 1 trigger output rate expected to be at ~2kHz after January shutdown (limited by Level 2 trigger processing power)
 - ▲ expect ~ doubling L1 trigger accept rate with beta commissioning Summer 2003

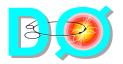


Pbar Kicker Prefire on 11.22.02

- At 14:48 on 11.22.02 store was lost due to pbar kicker pre-fire
- This accident affected D0 silicon in the following way
 - tripped ~25% of HV channels (as well as some muon channels)
 - integrated dose of ~100rads
 - pulled beam abort due to high rate losses on the pbar side of the detector
 - ▲ peak rate was 60rads/sec with abort limit set at 12rads/sec
 - only pbar side BLMs detected high dose rate
- After irradiation
 - DO was able to reset all HV trips
 - After reset and re-download all HDIs (those which were in good shape before the accident) are working properly
- This was the first radiation level related HV trip in DO silicon over last ~8 months
 - task force to understand reasons for prefires should be created
 - experiments should be informed about status and plans
- Collecting data with silicon in readout since Saturday







Summary

- D0 experiment is progressing well with physics data taking
 - trigger list 9.3 is running on-line
 - 7 mln events collected last week
- D0 weekly data taking efficiency is steady around 75%
 - no major software/hardware problems
 - running in the "stability" region of the L1/L2 rates plot
 - in process of attacking (currently) most serious issues
 - muon MDT loss of sync and muon PDT DSP software crashes
 - other rate/efficiency limiting issues are under studies as well
 - downtime is on the level of ~7% for the week
- Starting detailed planning of the January shutdown
 - plan to perform large scale detector "opening"
 - ▲ including parts of the muon system
 - will gain access to the central area of the detector
 - minor repairs of the silicon electronics
 - access to TLDs with accurate measure of silicon irradiation
- At this moment have no access request and plan for data taking over Thanksgiving week